

NESEMYANOV, A. N.

USSR/Chemistry - Mercury Organic Compounds Jul/Aug 53

"Investigation of Optically Active Organomercury Compounds. I. Preparation of Diastereomeric 1-Menthyl Esters of alpha-Bromomercuri-alpha-Phenyl Acetic Acid (I)." A. N. Nesmeyanov, D. A. Reutov, S. S. Poddubnaya, Moscow State U

Is Ak Nauk SSSR OKhN, No 4, pp 649-654

Found that when stereoisomeric 1-menthyl esters of bromoacetic acid are reacted with Hg metal, an equimolar mixt of diastereomeric menthyl esters of I is formed. Isolated two of these esters in a pure state.

27059

NESEMYANOV, A. N.

Jul/Aug 53

USSR/Chemistry - Mercury Organic
Compounds

"Synthesis of Organomercury Compounds by Reacting
Organic Halogen Derivatives With Mercury Metal,"
O. A. Reutov, A. N. Nesmeyanov, Moscow State U

Is Ak Nauk SSSR OKhN, No 4, pp 655-664

Investigated the reactions of some aliphatic and
aromatic halogen derivs with Hg. Showed that these
reactions are activated by UV light and benzoyl
peroxide. Found that aromatic iodine derivs and
aliphatic-aromatic bromine derivs react with Hg form-
ing organomercury compds.

270710

USSR/ Scientists - Chemistry

Card 1/1 : Pub. 40 - 1/22

Authors : Nesmeyanov, A. N.; Topchiev, A. V.; Kazanskiy, B. A.; and Shuykin, N. I.

Title : In memory of Academician N. D. Zelinskiy

Periodical : Izv. AN SSSR. Otd. khim. nauk 5, 765-774, Sep-Oct 1953

Abstract : Eulogy by the president and staff members of the Academy of Sciences USSR honoring the death of academician Nikolay Dmitrievich Zelinskiy, famous Russian chemist who died on July 31, 1953 at the age of 93. Illustration.

Institution : ...

Submitted : ...

Card 1/1 : Pub. 40 - 11/22

Authors : Nesmeyanov, A. N.; Reutov, O. A.; and Poddubnaya, S. S.

Title : Investigation of optically active mercury-organic compounds. Part 2.- About the mechanism of electrophilic substitution of a saturated carbon atom

Periodical : Izv. AN SSSR. Otd. khim. nauk 5, 850-859, Sep-Oct 1953

Abstract : The stereochemistry of electrophilic substitution of a saturated carbon atom was investigated. The mechanism of symmetrization of mercury-organic compounds of the fatty series, which takes place under the influence of nucleophilic reagents, is explained. The reasons for the different stereochemical reaction processes of electrophilic substitution are discussed. It was found that the reaction of electrophilic substitution takes place with the preservation of configuration of the asymmetrical carbon atom. Five references: 1-USSR and 4-USA (1927-1953).

Institution : The M. V. Lomonosov State University, Moscow

Submitted : November 21, 1952

YESMEYANOV, A.N.; ZAKHARKIN, L.I.

Separation of hydrogen chloride from $\alpha, \alpha, \alpha, \omega$ -tetrachloro alkanes
and α, α, α -trichloro alkanes. Izv. AN SSSR. Otd. khim. nauk no. 6:
988-990 H-D '53. (MLHA 6:12)

1. Institut organicheskoy khimii Akademii nauk SSSR.
(Hydrogen chloride) (Paraffins)

PONOMARENKO, P.K.; YASNOV, M.A.; NESMEYANOV, A.M.; VORONKOV, A.V.; PETROVSKIY,
N.G.

Opening the new buildings of the Moscow State University. Vest.Mosk.un.8
no.9:5-15 S '53. (MLRA 6:11)

(Moscow University--Buildings)

NESMEYANOV, A. N.

Science

For the first place in world science. Tekh. molod. 21, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

IVESMEYANOV, N.

RT-743 NESMEYANOV, N., L.A. SAZOMOV & I.J. SAZOMOVA

[The chemical state of atoms produced in nuclear transmutations] Khimicheskoe sostoianie atomov, poluchaiushchikhся pri iadernykh prevrashcheniyakh. Dopiski Khimii, 22(2): 133-178, 1953. [73 pages]

Available: Scientific Translations Center L.C.

Source of Reference: Scientific Translations Center, List #5, Feb 1954

NESHNYANOV, A.N., akademik, president.

Opening address of Academician A.N.Neshnyanov, president of the Academy of Sciences of the U.S.S.R. Vest.AN SSSR 23 no.11:3-6 N '53. (MIRA 6:12)

1. Akademiya nauk SSSR.

(Technology) (Science)

NESEMYANOV, A.N., akademik; TOPCHIEV, A.V., akademik.

Resolution of the Presidium of the Academy of Sciences of the U.S.S.R.
"On the results of the conference voted to problems of modern animal
morphology and a critical evaluation of A.N. Severtsov's 'evolutionary
morphology'." Mikrobiologiya 32 no.6:763-764 M-D '53. (MLBA 6:12)

1. President Akademii nauk SSSR (for Nesemyanov). 2. Glavnyy uchenyy
sekreter' Prezidiuma Akademii nauk SSSR (for Topchiyev).
(Morphology (Animals)) (Severtsov, Aleksei Nikolaevich,
1866-1936)

1. NESMEYANOV, A. N., Acad.

2. USSR (600)

4. Science

7. Some tasks of the Academy of Sciences of the U.S.S.R. in the light of the decisions of the 19th Congress of the Communist Party of the Soviet Union. Priroda 42, No. 3, 1953.

9. Monthly List of Russian Accessions. Library of Congress, May 1953. Unclassified.

NESMEYANOV, A.N.

Chemical Abst.
Vol. 48 No. 5
Mar. 10, 1954
Organic Chemistry

Stereochemistry of electrophilic substitution on a tetrahedral carbon. A. N. Nesmeyanov, O. A. ^② ~~Novikova~~, and S. S. Podubnaya. *Dokl. Akad. Nauk S.S.S.R.* 88, 878-82 (1953). The study was centered on the reactions $R_2Hg + HgX_2 \rightarrow 2RHgX$ and $2RHgX \rightarrow R_2Hg + HgX_2$. The 2 diastereoisomers of the l-menthyl ester of $PhCHBrCO_2H$ treated with Hg (cf. R. and Besprozvannyi, C.A. 46, 10120h) each gave a mixt. (I) of the isomers of the bromomercuri derivs. which were sepd. by crystn. from MeOH; 1 form, m. 162-3°, $[\alpha]_D^{25} -95.5^\circ$, the other form, m. 162-4°, $[\alpha]_D^{25} -49.3^\circ$. An equimolar mixt. of the 2 isolated isomers has $[\alpha]_D^{25} -72.9^\circ$, while I had $[\alpha]_D^{25}$ from -71 to -76°. Treatment of the bromomercuri derivs. with NH_3 in $CHCl_3$ gave $Hg(CHPhCO_2C_6H_{11})_2$ (II); the $HgBr$ deriv. m. 161-2°, gave a II, m. 118-22°, $[\alpha]_D^{25} -21.4^\circ$, while the other isomer gave a II m. 118-20°, $[\alpha]_D^{25} -7.7^\circ$. This is explainable by preservation of the configuration of the C atom during the reaction; thus this case of electrophilic substitution leads to retention of the C configuration. The II were treated with $HgBr_2$ in refluxing Me_2CO ; each isomer gave the same mixt. of diastereoisomers of the $HgBr$ deriv., $[\alpha]_D^{25} -72.5^\circ$, corresponding to an equimolar mixt. Refluxing the $RHgX$ derivs. in Me_2CO alone does not lead to their racemization, while in the presence of $HgBr_2$ there does take place a slow racemization at the central C atom. This is a much slower process than the reaction of R_2Hg with $HgBr_2$. Refluxing $HgBr_2$ in Me_2CO with either form of II in the presence of $RHgBr$ resulted in a reaction only between the 1st two reagents. Since the II isomers had pure L,L- or D,D-configurations, this reaction occurred with inversion of configuration at the C atom. The results are interpreted in terms of possible first and second order electrophilic substitution reactions. G. J. Koslanoff

1. NESMEYANOV, A. N., Acad.; LUTSENKO, I. F.; KHOMUTOV, P. K.
2. USSR (600)
4. Mercury Organic Compounds
7. From the field of mercury organic compounds. Symmetrization of α -halogen mercury ketones. Dokl. AN SSSR 88, No. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

NESMEYANOV, A.N.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Organic Chemistry

3
Addition of salts of mercury to disubstituted acetylenes.
A. E. Borisov, V. D. Vilyuchinskaya, and A. N. Nesmeyanov. *Doklady Akad. Nauk S.S.S.R.* 90, 388-8 (1953). $\text{MeC}\equiv\text{CMe}$ with $\text{Hg}(\text{OAc})_2$ in glacial AcOH yields 3 isomeric products, isolated as chlorides by addn. of KCl and sepd. by crystn. from C_6H_6 -ligroine: α , m. 140° ; β , m. $95-8^\circ$; and γ , m. 130° . Heated with 15% HCl all yield EtMeCO , showing the location of AcO group on the 2nd C atom. Ozonization of the α - and β -forms gave the same product (AcOH), while the γ -isomer gave lactic acid and HCO_2H , indicating that the α - and β -forms are *cis-trans* isomers of $\text{MeC}(\text{HgCH})\text{:CMeOAc}$, while the γ -isomer is $\text{MeCH}(\text{HgCH})\text{C}(\text{CH}_3)\text{OAc}$. Under the above conditions $\text{CH}_2\text{:C:CHMe}$ yields only insol. poly-Hg derivs., and only in MeOH soln. does it yield $\text{ClHg}(\text{OMe})\text{HgCl}$, m. 124° . Heating the α -isomer 2 hrs. at 60° yields the β -isomer, while further heating 2 hrs. at 78° gave the γ -isomer if the isomerization was run with the original HgOAc deriv., since the HgCl derivs. do not isomerize on heating, ultraviolet irradiation, or in the presence of org. peroxides. It is believed that the β -isomer, because of its lower m.p., is the *cis* form. All 3 forms are readily symmetrized in C_6H_6 by dry NH_3 , yielding, resp.: $[\text{MeC}(\text{OAc})\text{:CMe}]_2\text{Hg}$, m. $101-2^\circ$, $[\text{MeC}(\text{OAc})\text{:CMe}]_2\text{Hg}$, m. $113-14^\circ$, and $[\text{CH}_2\text{:C}(\text{OAc})\text{CHMe}]_2\text{Hg}$, m. 130° ; these with HgCl_2 in a reverse reaction yield the RHgCl derivs., which are identical with the initially used substances. $(\text{PhC})_2$ with $\text{Hg}(\text{OAc})_2$ in AcOH yields only 1 product, isolated, as above, as $\text{PhC}(\text{HgCl})\text{:CPh}(\text{OAc})$, sol. in org. solvents, m. 138° . NH_3 symmetrizes it to R_2Hg , m. $170-1^\circ$, which with HgCl_2 regenerates the original substance. Ozonolysis yields BzOH and AcOH . Treatment with HCl yields PhCH_2Bz . Irradiation of the RHgCl with ult. violet light 48 hrs. gave an isomer, m. $256-7^\circ$. G. M. Kosolapoff.

TERENT'YEV, A.P.; KUPLETSKAYA, N.B.; NESMEYANOV, A.N., akademik.

Use of dioxanesulfotrioxide for the determination of the active hydrogen atom in alcohols and aromatic amines. Dokl. AN SSSR 90 no.5:807-809 Je '53. (MLRA 6:5)

1. Laboratoriya organicheskoy khimii im. N.D. Zelinskogo Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova (for Terent'yev, Kupletskaya). 2. Akademiya nauk SSSR (for Nesmeyanov).
(Hydrogen) (Carbon compounds)

LEVINA, R.Ya.; SKVARCHENKO, V.R.; KOSTIN, V.N.; KATAEVA, N.S.; NESMEYANOV, A.N.,
akademik.

Synthesis of hydrocarbons. New reaction of tetrahydrophthalic anhydrides
(products of diene synthesis) with phosphorus pentoxide. Dokl. AN SSSR
91 no.1:95-98 J1 '53. (MLRA 6:6)

1. Akademiya nauk SSSR (for Nesmeyanov).
(Phthalic anhydrides) (Phosphorus pentoxide)

HESEMAYANOV, A.N., akademik; STRUCHKOV, Yu.T.; KHOTSYANOVA, T.I.

X-ray investigation of trans-trans-trans-tri- β -chlorovinylchlorostibine.
Dokl. AN SSSR 91 no.3:565-568 JI '53. (MLA 6:7)

1. Institut organicheskoy khimii Akademii nauk SSSR (for Struchkov and Khotyanova).
2. Akademiya nauk SSSR (for Hesmeyanov).
(Antimony organic compounds) (X-rays--Industrial applications)

NESEMYANOV, A.N., akademik; FREYDLIN, L.Kh.; RUDNEVA, K.G.

Metal-hydrogen character of certain hydrogenation catalysts. Dokl. AN SSSR
91 no.3:569-572 J1 '53. (MLRA 6:7)

1. Institut organicheskoy khimii Akademii nauk SSSR (for Freydlin and
Rudneva). 2. Akademiya nauk SSSR (for Nesemyanov).
(Catalysts) (Hydrogenation)

KABACHNIK, M.I.; IOFFE, S.T.; NESMEYANOV, A.N., akademik.

Theory of tautomeric equilibria. Investigation of the effect of the solvent on acidity of tautomeric forms, and the position of equilibrium of keto enols. Dokl.AN SSSR 91 no.4:833-836 Ag '53. (MIRA 6:8)

1. Akademiya nauk SSSR (for Nesmeyanov). 2. Institut organicheskoy khimii Akademii nauk SSSR (for Kabachnik and Ioffe).
(Tautomerism) (Keto enols)

RAZUBAYEV, G.A.; BRILKINA, T.G.; NESMEYANOV, A.N., akademik.

Investigation of the free-radical reactions of complexes $M(HR)_4$.
Dokl. AN SSSR 91 no.4:861-864 Ag '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Nesmeyanov). 2. Gor'kovskiy gosudarstvennyy universitet (for Razubayev and Brilkina).
(Organometallic compounds)

~~NYESZMEJANOV, A.~~

TOPCHIYEV

NYESZMEJANOV, A.; TOPCSIJEV, A.

"Tasks of technical and natural sciences in the fifth Five-Year Plan." Tr. from the Russian. p. 524. (Magyar Technika, Vol. 8, no. 9, Sept 53, Budapest)

SO: Monthly List of East European Accessions, Vol 3 No 2 Library of Congress Feb 4 Uncl

YUR'YEV, Yu.K.; KHMEI'NITSKIY, L.I.; NESMEYANOV, A.N., akademik.

Production of thiophene homologs from unsaturated hydrocarbons. Dokl. AN SSSR
92 no.1:101-104 S '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Nesmeyanov). 2. Laboratoriya organicheskoy
khimii im. N.D.Zelinskogo Moskovskogo gosudarstvennogo universiteta im.
M.V.Lomonosova (for Yur'yev and Khmel'nitskiy). (Thiophene)

TERENT'YEV, A.P.; ZABRODINA, K.S.; NESMEYANOV, A.N., akademik.

Gasometric method for the determination of aldehydes and ketones. Dokl. Akad. Nauk SSSR 92 no.6:1181-1184 O '53. (MLRA 6:10)

1. Akademiya nauk SSSR (for Nesmeyanov). 2. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova (for Terent'yev and Zabrodina).
(Gasometers and gasometry) (Aldehydes) (Ketones)

OL'DEKOP, Yu.A.; NESMEYANOV, A.N., akademik.

Thermic reaction between carbon tetrachloride and toluol. Dokl.AN SSSR 93
no.1:75-76 N '53. (KLR 6:10)

1. Akademiya nauk SSSR (for Nesmeyanov).
(Carbon tetrachloride) (Toluene)

PNOMAREN, A.A.; TIL', E.V.; MARKUSHINA, I.; SAPUNAR, E.; NESMEYANOV, A.N., akademik.

Multistep hydrogenation of furfurylidene ketones. New homologs of 1,6-dioxaspiro
(4,4)nonane. Dokl.AN SSSR 93 no.2:297-300 N '53. (MLBA 6:10)

1. Akademiya nauk SSSR (for Nesmeyanov). (Hydrogenation) (Nonane)

STRUCHKOV, Yu.T.; KITAYGORODSKIY, A.I.; KHOTSYANOVA, T.L.; NESMEYANOV, A.N., akademik.

Crystalline structure of addition products of HgCl_2 coumarin (I) and HgBr_2 coumarin (II). Dokl.AN SSSR 93 no.4:675-678 D '53. (MLBA 6:11) ²

1. Akademiya nauk SSSR (for Nesmeyanov). 2. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR (for Struchkov, Kitaygorodskiy and Khotseyanova).
(Mercury organic compounds) (Coumarin)

YEPIFANOVA, A.P.; NESMEYANOV, A.N.; akademik, redaktor; TOPCHIEV, A.V.,
akademik, redaktor; ISAKOVA, O.V. redaktor; LUKHTENSHTEYN, Ye.S.
redaktor; SHUMKOV, V.I., redaktor, DOBROMYSLOV, A.A., redaktor;
POLYAKOVA, T.V., tekhnicheskii redaktor

Viktor Sergeevich Kulebakia. Vstup. stat'ia K.S. Bobova; biblio-
grafiia sostavlena A.P. Epifanovoi. Moskva, 1954. 47 p. (Materialy k
bibibliografii uchonykh SSSR. Seriya tekhnicheskikh nauk. Energe-
tika, no.4) (MLRA 8:9)

(KULEBAKIN, VIKTOR SERGEEVICH, 1891-)

USSR 4

Synthesis of sulfur-containing polysiloxane derivatives
and α,ω -thiodicarboxylic acids. A. N. Nesmeyanov, L. I. H.
Zakharukin, and R. G. Petrova. Dokl. Akad. Sci. U.S.S.R., 6
Dok. Chem. Sci. 1984, 204-8 (Engl. translation). See C.A.
49, 6120g. H. L. H.

(2)

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NESMEYANOV, A.N.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Organic Chemistry

Organomercury compounds. Symmetrization of α -(halomercuri) ketones. A. N. Nesmeyanov, I. F. Lutsenko, and B. M. Klimov (M. V. Lomonosov State Univ., Moscow). *Doklady Akad. Nauk S.S.S.R.* 88, 837-8 (1953). Ketones with a HgX grouping are symmetrized into R₂Hg by means of NH₃; dry NH₃ gives poor yields if simply passed into the reaction mixt., but the following technique gave good results at room temp. (heating must be prevented). To 0 g. AcCH₂HgCl in 250 ml. (CH₂Cl)₂ was added a soln. of NH₃ in (CH₂Cl)₂ until pptn. ceased, ppt. filtered off, washed with fresh solvent, and the soln. evapd., yielding 4.5 g. diacetylmercury, m. 60° (from heptane-C₆H₆). This (0.32 g.) and 0.37 g. HgCl₂ heated 10 min. in EtOH gave 0.5 g. AcCH₂HgCl, m. 103-4°. Similarly, BrCH₂HgCl and NH₃ in (CH₂Cl)₂ gave 60% (BrCH₂)₂Hg, m. 104°. 2-(Chloromercuri)cyclopentanone similarly gave 70% bis(2-oxocyclopentyl)mercury, m. 110-12° (from MePh-octane), which, heated with HgCl₂ in EtOH gave, R₂HgCl, m. 149-50°. Reaction of 2-(Chloromercuri)cyclohexanone with NH₃, as above, gave 65% bis(2-oxocyclohexyl)mercury, decomp. 120° (from PhMe-octane). G. M. K.

USSR 3

Preparation of tetraphenyl- and tetra-*p*-tolyllead by decomposition of arylidiazonium fluoroborates by a lead-sodium alloy. A. N. Nesmeyanov and L. G. Makarova. *Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci.* 1954, 315 (Engl. translation).—See C.A. 49, 6340h. H. L. H.

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11 0.1

Absorption spectra of pyrylium salts. A. N. Ne-
mevanov, L. A. Kozlitsyna, N. K. Kochetkov, and M. M.
Rymashev, Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci.
1954, 675-83 (Engl. translation).—See C.A. 49, 4104h.
B. M. R.

Smir 3

А. Н. НЕМОВА

USSR.

✓ Absorption spectra of pyrylium salts. A. N. Nemova,
T. A. Karlovna, N. E. Kochetkov, S. M. T. Rybin

"3 Chlorides of 2-alkoxyethoxyvinylphosphonic and 2-alkoxyethoxyvinylthio-phosphonic acids," Izvest Akad Nauk SSSR, Otdel Khim Nauk, 799-802 (1954).

N. D. Zelinskii Institute of Organic Chemistry of the Academy of Sciences, Moscow.
President of the Academy of Sciences of the USSR.

B-83602, 18 Mar 55

NESMEYANOV, A. N.; KOLOBOVA, N. E.; ANISIMOV,

"3 Chlorides of arylvinylphosphonic Acids," Izvest Akad Nauk SSSR, Otdel Khim Nauk, 803-5 (1954).

N. D. Zelinskii Institute of Organic Chemistry of the Academy of Sciences, Moscow.
President of the Academy of Sciences of the USSR.

B-83602, 18 Mar 55

NESMEYANOV, A.N., akademik; PEREVALOVA, E.G.; GOLOVNYA, R.V.; NESMEYANOVA, O.A.

Reaction of substitution of hydrogens in ferrocene. Dokl. AN SSSR
no.3:459-461 J1 '54. (MLRA 7:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Substitution (Chemistry)) (Iron organic compounds)

Card : 1/1 Pub. 40 - 24/27

Authors : Nesmeyanov, A. N., Kochetkov, N. K., and Rybinskaya, M. I.

Title : Synthesis of aryl-beta-vinyl chloride ketones

Periodical : Izv. AN SSSR. Otd. khim. nauk 4, 741 - 742, July - August 1954

Abstract : Brief report about a method for the synthesis of aryl-beta vinyl chloride ketones through the condensation of substituted acetophenones with ethylformate and consequent treatment of the derived oxymethylene ketone with thionyl chloride. Six references: 2 USSR; 1 USA; 2 German and 1 Italian (1898 - 1953).

Institution : The M. V. Lomonosov State University, Moscow

Submitted : February 23, 1954

1125/1125/ANOV, "11"

USSR/Scientific Organization

Card 1/1 : Pub. 124 - 1/29

Authors :

Title : Holiday of Soviet science and culture

Periodical : Vest AN SSSR 6, 3-7, June 1954

Abstract : Speech by the president of the Academy of Sciences USSR, Academician A. N. Nesmeyanov, held at the Academy of Sciences Ukr-SSR in Kiev on April 6, 1954, celebrating the 300th anniversary of the annexation of the Ukraine by Russia.

Institution :

Submitted :

USSR/Chemistry - Organic chemistry

Card 1/2 Pub. 40 - 6/27

Authors : Nesmeyanov, A. N.; Freydina, R. Kh.; and Braynina, E. M.

Title : Reaction of alkylorthetitanates and titanium tetrachloride in a piperidine medium

Periodical : Izv. AN SSSR. Otd. khim. nauk 6, 987-991

Abstract : Experiments showed that alkylorthetitanates, alkoxytitanium chlorides, di- and trichlorides together with piperidine form certain crystalline binary compounds of the $(RO)_n TiCl_{4-n} \cdot C_5H_{10}NH$ composition. It is shown that the reaction, which is inversely disproportional between the alkyl-orthotitanates and titanium tetrachloride, passes smoothly in the presence of a estimated amount of piperidine yielding large quantities of

Institution : Acad. of Sc., USSR, The N. D. Zelinskiy Institute of Organic Chemistry

Submitted : January 19, 1954

Organic Chemistry - Organic Chemistry

Card 1/2 Pub. 40 - 7/27

Authors : Nesmeyanov, A. N.; Borisov, A. E.; and Vol'kenau, N. A.

Title : Synthesis of stereoisomeric mercuriorganic compounds from lithium-organic compounds

Periodical : Izv. AN SSSR. Otd. khim. nauk 6, 992-1001, Nov-Dec 1954

Abstract : The synthesis of stereoisomeric alpha-mercuribistilbenes through the reaction of geometric isomers of alpha-lithiumstilbene with $HgCl_2$ is described. The disymmetrization reaction of stereoisomeric alpha-chloro-mercuristilbenes.

Institution : Acad. of Sc., USSR, The N. D. Zelinskiy Institute of Organic Chemistry

Submitted : February 13, 1954

Card 1/2 Pub. 40 - 8/27

Authors : Nesmeyanov, A. N., and Perevalova, E. G.

Title : Alkylation and acylation of chloromercuriacetaldehyde

Periodical : Izv. AN SSSR. Otd. khim. nauk 6, 1002-1007, Nov-Dec 1954

Abstract : It was established that the reaction of mercurized acetaldehyde with acid halides of carboxylic acid and tri-(p-nitrophenyl) bromomethane results in the formation of homologous vinyl ethers. The reaction takes place with the transfer of the reaction center according to the system of conjugated hg-C and C-O bonds.

Institution : The M. V. Lomonosov State University, Moscow

Submitted : March 15, 1954

USSR/Scientific Organization

Card 1/1 Pub. 124 - 1/26

Authors : Nesmeyanov, A. N., and Topchiev, A. V., Academicians

Title : Congratulatory greetings to the Chinese Academy of Sciences from the Academy of Sciences USSR

Periodical : Vest. AN SSSR 10, 3-4, Oct 1954

Abstract : The text is published of the congratulatory messages sent by the president and main scientific secretary of the Academy of Sciences USSR to the Academy of Sciences in China honoring the fifth anniversary of the establishment of the Chinese Peoples Republic.

Institution : Academy of Sciences USSR

Submitted :

USSR/Miscellaneous - Propaganda

Card 1/1 Pub. 124 - 2/26

Authors : Nesmeyanov, A. N., Academician, President of the Academy of Sciences, USSR.

Title : The great celebration of the Chinese People

Periodical : Vest. AN SSSR 10, 5-7, Oct 1954

Abstract : Released contents of the personal message sent by A. N. Nesmeyanov, president of the Academy of Sciences USSR, to the people of China celebrating the fifth anniversary of the Chinese Communist Regime.

Institution : Academy of Sciences USSR

Submitted :

Card 1/1 Pub. 124 - 4/26

Authors : Nesmeyanov, A. N., and Topchiev, A. V., Academicians

Title : Greetings to the German Academy of Sciences in Berlin from the Academy of Sciences USSR

Periodical : Vest. AN SSSR 10, 17-18, Oct 1954

Abstract : The context is published of the special congratulatory message sent by the president and main secretary of the Academy of Sciences USSR to the presidium of the German Academy of Sciences in Berlin on the occasion of the fifth anniversary of the establishment of the German Peoples Republic.

Institution : Academy of Sciences USSR

Submitted :

¹⁰²
NEBENYANOV, A., Akademik:

We want to strengthen international scientific cooperation.
Bibl. VFER no.10:249-251 Ag-O '54. (MIRA 8:2)

1. President Akademii nauk SSSR.
(Exchanges, Literary and scientific)

NESMEYANOV, A.N., akademik

Letter to the editor. Zhur. ob. biol. 15 no.4:320 J1-Ag '54.
(MIRA 7:9)

1. President Akademii nauk SSSR.
(TURBIN, M.V.) (LYSENKO, TROFIM DENISOVICH, 1888-)

USSR/Miscellaneous

Card 1/1

Author : Nesmeyanov, A. N., Academician, President of the Academy of Sciences of the USSR

Title : Science in the struggle for peace

Periodical : Nauka i Zhizn' 21/2, 1-2, Feb/1954

Abstract : Science and art unite humanity as no other element of culture. Science is international. The more scientists fraternize with each other the harder it is to use science for the destruction of humanity. Soviet workers in science strive to bring about close harmony in international cooperation. The exchange of students is advocated. The use of "negative" science against humanity is deplored. Here the free nations are implied and the instances of cooperation cited are those with other communist nations.

Institution :

Submitted :

NESMEYANOV, A.N.

NESMEYANOV, A.N., akademik.

Opening speech of Academician A.N.Nesmeyanov, president of the
Academy of Sciences of the U.S.S.R. Vest.AN SSSR 24 no.3:15-22
Mr '54. (MLRA 7:3)

1. President Akademii nauk SSSR.
(Academy of Sciences of the U.S.S.R.)

NESEMEYANOV, A. N.

NESEMEYANOV, A.N., akademik.

~~Results and prospects for coordinated work.~~

Results and prospects for coordinated work. Opening address by
Academician A.N.Nesmeianov. Vest.AN SSSR 24 no.4:13-16 Ap '54.
(MLRA 7:5)

(Science--Congresses)

NESEMEYANOV, A. N.

USSR/Miscellaneous - General Sciences

Card : 1/1

Authors : Nesmeyanov, A. N., Academ., The president of the Acad. of Scs. of the USSR

Title : Scientific problems of the Soviet science.

Periodical : Vest. AN SSSR, 24, Ed. 5, 3 - 25, May, 1954

Abstract : Outlines general development of the Soviet science, points out tremendous progress in developing atomic physics, due to construction of such devices as cyclotrons, betatrons, synchro-phase-trons; great progress in remote control and the automatization of industry.

Institution : ...

Submitted : ...

NESEMEYANOV, A.N., akademik; TOPCHIIYEV, A.V., akademik.

Greetings to the Chinese Academy of Sciences from the Academy of Sciences of the U.S.S.R. Vest.AN SSSR 24 no.10:3-4 O '54. (MLRA 8:1)

1. President Akademii nauk SSSR (for Nesemeyanov). 2. Glavnyy uchenyy sekretar' Prezidiuma Akademii nauk SSSR (for Topchiyev).
(Russia--Relations (General) with China)

MESEMYANOV, A.N., akademik; TOPCHIEV, A.V., akademik.

Greetings to the German Academy of Sciences in Berlin from the Academy of Sciences of the U.S.S.R. Vest.AN SSSR 24 no.10:17-18 O '54.

(MIRA 8:1)

- 1. President Akademii nauk SSSR (for Mesemyanov). 2. Glavnyy uchenyy sekretar' Prezidiuma Akademii nauk SSSR (for Topchiyev).**
(Russia--Relations (General) with Eastern Germany)

USSR/Chemistry

Card 1/1

Authors : Priselkev, Yu. A. and Nesmeyanov, An. N.

Title : Determination by the method of marked atoms, of calcium and strontium vapor tension at temperatures below the melting point.

Periodical : Dokl. AN SSSR 95, 6, 1207 - 1210, 21 Apr 54

Abstract : Author describes an experimental determination of vapor tension of calcium and strontium at temperatures below the melting point. Determination is done with the help of the apparatus designed by the authors. Description of the apparatus and the experimental set-up is given in the article. Sketches and diagrams.

Institution :

Submitted : 20 Feb 54

NESMEYANOV, A. N.

From Russian for Dr. G. O. Doak

Doklady Akademii Nauk SSSR 96 (1): 81-83; 1954

Rapid Methods of Microelementary Analysis. Simultaneous Determination of Carbon, Hydrogen, and Silicon by Combustion in the Presence of a Catalyst.

by

V. A. Klimova, M. O. Korshun, and E. G. Bereznitskaia

(Article presented by Academy Member A. N. Nesmeyanov Feb 24, 1954).

Translated at the National Institute of Standards and Technology, Gaithersburg, Md.
Full translation available at [redacted]

NESMEIANOV, A. N.

From Russian for Dr. G. O. Doak

Doklady Akademii Nauk SSSR 96 (2): 287-288; 1954

Rapid Methods of Microelementary Analysis. Simultaneous Determination of Carbon, Hydrogen, and Phosphorus in Organophosphorus Compounds
by

V. A. Klimova, M. O. Korshun, and E. G. Gereznitskaia

(Article presented by Academy Member A. N. Nesmeianov Feb 24, 1954).

Translated at the National Institutes of Health, Bethesda, Maryland.
Full translation available in ~~Q~~/K.

NESMEYANOV, A. N.

USSR/Chemistry

Card 1/1

Authors : Nesmeyanov, A. N. Academician, Borisov, A. E., and Novikova, N. V.

Title : Isopropenyl mercury and thallium compounds and investigation of their chemical properties

Periodical : Dokl. AN SSSR, 96, Ed. 2., 289 - 292, May 1954

Abstract : Isopropenyl mercury and thallium compounds were derived from the reaction of mercury salts with isopropenyllithium which in turn was obtained from the reaction of metallic lithium and isopropenyl bromide in a dry ester medium. The isopropenyllithium in ester reacts with mercuric bromide forming isopropenyl mercury bromide with yield of 68%. Recrystallized from acetone it continuously melted at 167°. Isopropenyllithium in an ester solution reacts easily with thallium trichloride forming diisopropenyl thallium. Four references; 3 USSR

Institution : Academy of Sciences USSR, Institute of Elementary-Organic Compounds

Submitted : March 13, 1954

NESMEYANOV, A. N.

USSR/ Chemistry

Card : 1/1

Authors : Nesmeyanov, A. N., Academician; Freydina, R. Kh., and Zakhrakin, L. I.

Title : Conversion of 1,1,1,3-tetrachloro-3-alkoxypropanes into esters of beta, beta-dialkoxypropionic acid (propionate).

Periodical : Dokl. AN SSSR, 97, Ed. 1, 91 - 94, July 1954

Abstract : The reaction leading to the conversion of tetrachloro-alkoxypropanes into propionates (esters of β, β -dialkoxypropionic acid) under the effect of aromatic alcohols is described. The problem of whether the

MEMOS USED ARE INCLUDED, VIA OUR REFERENCES.

Institution : Acad. of Sc. USSR, Institute of Elementary-Organic Compounds

Submitted : May 12, 1954

NESMEYANOV, A. N.

USSR/ Chemistr - Displacement

Card : 1/1

Authors : Nesmeyanov, A. N., Academician, Perevalova, E. G., Golovnya, R. V. and
Nesmeyanova, C. A.

Title : Reactions of ferrocene hydrogen displacement

Periodical : Dokl. AN SSSR, 97, Ed. 3, 459 - 461, July 21, 1954

Abstract : The remarkable thermal and chemical stability, resistance to pyrolysis, acids and alkalis, of ferrocene (dicycloferropentadiene), are discussed. Ferrocene cannot be nitrated, sulfonated or halogenated but shows a great tendency toward displacement reactions. During proper metallization ferrocene is capable of forming mixed organo-metallic compounds the chemical structures of which are described. Three USA and 1 German references.

Institution : The M. V. Lomonosov State University, Moscow

Submitted : May 20, 1954

USSR/Chemistry - Physical chemistry

Card 1/1 : Pub. 22 - 29/44

Authors : Nesmeyanov, A. N., and Iofa, B. Z.

Title : ~~Measurement of vapor pressure of solid antimony by the method of marked atoms~~
Measurement of vapor pressure of solid antimony by the method of marked atoms

Periodical : Dok. AN SSSR 98/6, 993-995, October 21, 1954

Abstract : The vapor pressure of solid antimony was measured in a wide range of temperatures. Only tetratomic molecules were found to exist in antimony vapors in the range of investigated temperatures. The radioactive Sb^{124} isotope was used in the role of indicator. The device in which the experiments were carried out as well as results obtained are described. Seven references: 1-USSR; 1-Japanese; 2-Norwegian; 1-English and 2-USA (1909-1954). Table; graph; drawings.

Institution : The M. V. Lomonosov State University, Moscow

Presented by: Academician V. N. Kondratyev, May 28, 1954

USSR/Chemistry - Reaction processes

Card 1/1 Pub. 22 - 14/45

Authors : Nesmeyanov, A. N., Academician; Perevalova, E. G.; and Golovnya, R. V.

Title : Reaction of ferrocene with diazo-compounds

Periodical : Dok. AN SSSR 99/4, 539-542, Dec 1, 1954

Abstract : Experimental data showing that ferrocene reacts not only with p-nitrophenyl-diazonium chloride producing p-nitrophenylferrocene (yield 64%), but also with other diazo-compounds yielding homologous arylferrocenes, are presented. The reaction between diazo-compounds and ferrocene, was found to be a suitable way of obtaining comparatively high yields of monoarylferrocenes, arylferrocenes with different substitutes in the benzene nuclei. The mechanism of the reaction, is explained. Seven references: 3-USA; 3-German and 1-USSR (1885-1954). Graph.

Institution : The M. V. Lomonosov State University, Moscow

Submitted : November 11, 1954

Card 1/1 Pub. 22 - 30/56

Authors : Nesmeyanov, A. N., Academician; Freydlina, R. KH.; and Zakharkin, L. I.

Title : Regrouping of 1,1-dichloro-3-alkoxy-3-arylpropenes-1 into beta-arylacrylic acids

Periodical : Dok. AN SSSR 99/5, 781-783, Dec 11, 1954

Abstract : Another example of allyl regrouping in a dichloropropene system is presented. The conversion of 1,1-dichloro-3-alkoxy (oxy)-3-arylpropenes-1 into beta-arylacrylic acids, by heating the propenes in an acetic acid solution in the presence of hydrochloric acid, is described. The physico-chemical properties of the regrouping products (acids) are listed. Eleven references: 3-USA; 5-USSR; 2-French and 1-Italian (1881-1954).

Institution : Academy of Sciences USSR, Institute of Elementary Organic Compounds

Submitted : October 7, 1954

NESMEYANOV, Andrey Nikolayevich, kandidat khimicheskikh nauk; KIPNIS, S.Ye.,
~~redaktor~~; ~~ISLANT~~ YEVA, tekhnicheskiiy redaktor.

[Radioactive isotopes] Radioaktivnye izotopy. Moskva, Izd-vo "Znanie,"
1955. 31 p. (Vsesoiuznoe obshchestvo po rasprostraneniю politicheskikh
i nauchnykh znaniy, Seriya 3, no.6). (MLRA 8:5)
(Radioisotopes)

SMIRNOVA, N.B.; NESMEYANOV, A.N., akademik, redaktor; TOPCHYEV, A.V., akademik redaktor; ISAKOVA, O.V., redaktor; LIKHTENSHTEYN, Ye.S. redaktor; SHUNKOV, V.I., redaktor; PEREL'MAN, V.I., redaktor; ZEMLYAKOVA, T.A., tekhnicheskiy redaktor.

[Britske, Ergard Viktorovich, 1877-1953] Vstup.stat'ia S.I. Vol'fkovicha i A.F. Kapustinskogo Bibliog.sostavlena N.V. Smirnovoi. Moskva, 1955. 37 p.(Materialy k bibliografii uchenykh SSSR. Seriya khimicheskikh nauk, no.20) (MLRA 8:11)
(Bibliography--Britske, Ergard Viktorovich)

IV. *1955 (1954)*
ISAKOVA, O.V., otvetstvennyy redaktor; NESMEYANOV, A.N., akademik,
glavnyy redaktor; TOPCHYEV, A.V., akademik, zamestitel' glavnogo
redaktora; LIKHTENSHTEYN, Ye.S., otvetstvennyy redaktor; SHUMKOV,
V.I., otvetstvennyy redaktor; POLYAKOVA, T.V. tekhnicheskij redak-
tor.

Aleksandr Naumovich Frankin. Vstup. stat'ia B.M. Kabanova, bibliog.
sost. O.V. Isakovoï. Moskva, Izd-vo Akad.nauk SSSR, 1955. 61 p.
(Materialy k biobibliografii uchenykh SSSR, Seriya khimicheskikh
nauk no.21) (MLRA 8:8)

1. Akademiya nauk SSSR.
(Frankin, Aleksandr Naumovich, 1895-)

NESMEYANOV, A.

(Cand. Chem. Sci.)

"Problems in the Utilization of Atomic Energy (the Application of Radioactive Substances in Technology)," Krasnaya Zvezda, Moscow, 13 Mar 55

Sum. No. 531, 8 Jun 55

NESMEYANOV, A. N.

"Military Use of Atomic Energy," Vol. V., Voennoye Izdatel'stvo Ministerstva
Oborony Soyuz SSSR, Moscow, 1955

Translation pp. 92-107, 563776

^A
NESMEYANOV, N. (Acad.), LEBEDEV, N. F., LOZGACHEV, V. I., and CHUDINOV, E. G.

^
"Isotope Exchange Method for Measuring the Velocity of Evaporation and the Coefficient of Diffusion of Solid Metals".

President, Academy of Sciences USSR

Report appearing in 1st. Volume of Session of the Academy of Sciences USSR on the Peaceful Use of Atomic Energy, 1-5 July 1955", Publishing House of Academy of Sciences. USSR, 1955.

SO: Sum 728, 28 Nov 1955.

NESEMAYANAV, A. N.

USSR/General Division. Congresses. Sessions. Conferences. A-4

Abs Jour : Ref Zhur-Biologia, No 3, 1958, 9308

Author : A. N. Nesmeyanav

Inst :

Title : The Introductory Speech at the Session of the
Academy of Sciences USSR Dealing with the
Peaceful Use of Atomic Energy

Orig Pub : Sessiya An SSSR po mirnomu ispol'zovaniyu atom,
energii, 1955, Plenar. zasedaniye, M., izd-vo
AN SSSR, 1955, 3-4

Abstract : No abstract

Card 1/1

Metals ✓ Isotope exchange method for measuring the velocity of evaporation and the coefficient of diffusion of solid metals. A. N. Nesmeyanov, N. F. Lebedev, V. I. Lozachev, and B. G. Chudinov. *Conf. Acad. Sci. U.S.S.R. on Peaceful Uses of Atomic Energy, Session Div. Tech. Sci.* 1955, 49-61 (Pub. 1956)(Engl. translation).—See C.A. 50, 748a.

D. M. R.

4

✓ Reaction of alkyl 2-chlorovinyl ketones with ethyl aceto-
acetic ester. N. K. Kochetkov, L. I. Kudrachov, and A.
A. Nesmeyanov, *Bull. Acad. Sci. U.S.S.R., Div. Chem.*
Ser. 1955, 729-31 (Engl. translation).—See C.A. 50, 83356
R M R.

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M.A. YOUTZ
scopies

5
Reaction of 2-chlorovinyl ketones with anthracene. A. 3 M. A. YOUTZ
N. Nesmeyanov, M. I. Rybinskaya, and N. K. Kochetkov.
Dokl. Akad. Nauk S.S.S.R., Div. Chem. Sci. 1953, 736-7.
(Engl. translation).—See C.A. 50, 0300i. B. M. R. 2 copies
DM

Derivatives of unsaturated phosphonic acids. X. Diethyl
esters of 2-alkoxy (and phenoxy) vinylphosphonic and 2-
alkoxy (and phenoxy) vinylthiophosphonic acids. K. N.
Ghismanov, N. B. Kalchova, and A. N. Nemesyanov. *Bull.*
Acad. Sci. U.S.S.R., Div. Chem. 1955, 741-5 (Engl.
translation). XI. Neutral esters of 2-alkoxyethoxyvinyl-
phosphonic acids. *Ibid.* 745-50. XII. Tetraalkylid-
amides of 2-alkoxyethoxyvinylphosphonic acids. *Ibid.*
751-3. — See C.A. 50, 9319c. H. M. R.

M. A. YOUTZ

2 copies

PM

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136620



APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136620C

Reaction of 2-chloropropyl ketones with anthracene
A. N. Neameyayov, M. I. Rybinskaya, and N. K. Kochet-
kov (M. V. Lomonosov State Univ., Moscow). *Izv. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1935, 817-22.
When 10 g. SnCl₄ was added to 12.8 g. anthracene and 7.5
g. AcCH₃:CHCl in 200 ml. C₆H₆ in 1 hr., and the mixt. was
stirred 6 hrs., then treated with dil. HCl with cooling,
the org. layer yielded 87.8% 1-chloro-2-acetyl-1,2-endo(9,10-
dihydroanthracenyl)ethane (12-acetyl-11-chloro-9,10-dihydro-
9,10-ethanoanthracene) (I) in 145° (from AcOH), decomp.
200° to anthracene; azine, decomp. 162-4°; 2,4-dinitro-
phenylhydrazones, m. 278° (from AcOH). Similarly from the
appropriate RCOCH₃:CHCl were prepd. the following 12-
R-ethano analogs of I (R, % yield, and m.p. given): Pr, 84, 4,
92-4° (from Me₂CO) (decomp. 200°); n-C₄H₉, 70.1, 82°
(from Me₂CO) (decomp. 200°); Ph (II), 80.6, 184-6°
(from AcOH and Me₂CO). BrCH₂:CHCl added to 3 g.
anthracene in 50 ml. o-xylene, the refluxing mixt. treated
10 hrs. with dry HCl, the unreacted hydrocarbon removed,
and the soln. evapd. yielded 16.8% II, identical with the
above sample. I treated with powd. NaOH in Et₂O 10 hrs.
gave 76.9% 1-acetyl-1,2-endo(9,10-dihydroanthracenyl)ethyl-
ene (III), m. 174-5° (from Me₂CO). Similarly were obtained:
the i-PrCO, m. 152-3° (from Me₂CO), and i-caproyl analog,
an oil, n_D²⁰ 1.5900. II (3.3 g.) added to 50 ml. Et₃NH and

(OVER)

7

REACTION OF 2-CHLOROVINYL...

refluxed 2 hrs. gave, after evapn. and extrn. with 5% HCl and Et₂O, 26.3% of the 1-Bz analog of III, m. 162-3° (from Me₂CO), while the aq. soln. gave 64.3% 1-Et₃N analog of II, m. 52-4° (from aq. MeOH) (picrate, m. 187-8°). I (0.88 g.) shaken with 0.6 g. NaOH in 15 ml. EtOH 3 hrs. gave 87.8% 1-EtO analog of I, m. 162-4° (from Me₂CO).

G. M. Kosolapoff

$\frac{2}{2}$

Handwritten signature

NESEMEYANOV, A.N.

USSR/ Chemistry - Synthesis

Card 1/1 Pub. 40 - 23/27

Authors : Nesmeyanov, A. N.; Kochetkov, N. K.; and Dombrovskiy, Ya. V.

Title : ~~beta-aminovinyl ketones~~ Beta-aminovinyl ketones. Part 3. Synthesis of alkyl-beta-aminovinyl ketones

Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 179-181, Jan-Feb 1955

USSR/ Chemistry - Organic chemistry

Card 1/1 Pub. 40 - 5/26

Authors : Nesmeyanov, A. N., and Zakharkin, L. I.

Title : Omega-chlorocarboxylic acids and some of their conversions

NE SMETNOV, P. N.

ANISIMOV, K. P.; KOLOBOVA, N. Ye.; NESMEYANOV, A. N.

Research in the field for derivatives of unsaturated phosphinic acids. Report no. 6. Esters of β -isopropoxyvinylphosphinic, β -isobutoxyvinylphosphinic, and -isocamloxyvinylphosphinic acids. Izv. AN SSSR. Otd. khim. nauk no. 3:425-431 My-Je '55.

(MLRA 8:9)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR.

(Phosphinic acid)

НЕСМЕЯНОВ, А.Н.

ANISIMOV, K.H.; KOLOBOVA, N.Ye.; NESMEYANOV, A.N.

Research in the field of unsaturated phosphinic acids. Report
no.7. Esters of β -phenoxyvinylphosphinic acid. Izv.AN SSSR.
Otd.khim.nauk no.3:432-434 My-Je '55. (MIRA 8:9)

1. Institut elementoorganicheskikh soedineniy Akademii nauk
SSSR.

(Phosphinic acid)

KRESMEYANOV, A.N.; KOCHETKOV, N.K.; RYBINSKAYA, N.I.; UGLOVA, N.V.

**Certain reactions of alkyl- β -phenoxyvinyl ketenes. Izv. AN SSSR.
Otd.khim.nauk no.4:649-656 J1-Ag '55. (MLRA 9:1)**

**1.Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Ketenes)**

ANISIMOV, K.M.; KOLOBOVA, N.Ye.; NESMEYANOV, A.N.

Research in the field of unsaturated phosphinic acids. Report no.8.
Tetraalkyldiamides of β -alkoxy(phenoxy)vinylphosphinic acids. Izv.
AN SSSR. Otd.khim.nauk no.4:665-668 J1-Ag '55. (MLRA 9:1)

1.Institut elementorganicheskikh soedineniy Akademii nauk SSSR.
(Phosphinic acid) (Amides)

NESMEYANDY, A.N.

ANISIMOV, K.N.; KOLOBOVA, N.Ye.; NESMEYANOV, A.N.

Research in the field of unsaturated phosphinic acids. Report no.9.
Complete esters of β -alkoxy(phenoxyl)vinylthiophosphinic acids.
Izv. AN SSSR. Otd. khim. nauk no. 4: 669-671 J1-Ag '55. (MLBA 9:1)

1. Institut elementeorganicheskikh soedineniy Akademii nauk SSSR.
(Phosphinic acids)

NESEMYANOV, A.N.;RYBINSKAYA, M.I.;KOCHNETOV, N.K.

**The reactions of the β -chlorovinyl ketones with anthracene.
Izv.AN SSSR.Otd.khim.nauk no.5:817-822 S-O '55. (KIRA 9:1)**

**1.Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Ketones) (Anthracene)**

Nesmeyanov, A. N.

ANISIMOV, K. N.; KOLOBOVA, N. Ye; NESMEYANOV, A. N.

Investigation into the unsaturated phosphinic acids. Part 11.
The complete esters of *p*-alkoxyethoxyvinylphosphinic acids.
Izv. AN SSSR. Otd. khim. nauk no. 5:827-833 S-O '55. (MLBA 9:1)

1. Institut elementeorganicheskikh soedineniy Akademii nauk
SSSR. (Phosphinic acid)

ANISIMOV, K.M.; KOLOBOVA, N.Ye; NESMEYANOV, A.N.

~~Investigation into the unsaturated phosphinic acids. Part 12.~~
Investigation into the unsaturated phosphinic acids. Part 12.
The tetraalkyldiamides of the β -alkoxyethoxyvinylphosphinic
acids. Izv.AN SSSR.Otd.khim.nauk no.5:834-837 S-O '55.

(MLRA 9:1)

1. Institut elementoorganicheskikh soedineniy Akademii nauk
(Phosphinic acid) (Amides)
SSSR.

Synthesis of alkoxytitanium ---
be recrystd. Similarly, 4.8 g. I and 1.4 g. AcCl gave a solid

AID P - 2839

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 28/30

Authors : Academicians A. N. Nesmeyanov, A. V. Topchiyev,
A. F. Ioffe, P. L. Kapitsa, M. A. Lavrent'yev,
D. V. Skobel'tsyn, V. A. Fok

Title : Albert Einstein (3.14.1879-4.18.1955) (Current
events)

Periodical : Elektrichestvo, 6, 85-86, Je 1955

Abstract : On the occasion of the death of Albert Einstein,
the undersigned academicians present a short homage
to commemorate his scientific activities.

Institution : None

Submitted : No date

HESMEYANOV, A.N.; REUTOV, O.A.

The mechanism of electrophilic substitution in saturated carbon atoms. Vest. Mosk. un. 10 no.45:133-143 Ap-May '55. (MLBA 8:8)
(Substitution (Chemistry))

NESMEYANOV, A. N.

NESMEYANOV, A. N., akademik.

Some problems of Soviet science. Tekhn. mol. 23 no. 1:3-8 Ja'55.
(MIRA 8:3)

1. President Akademii nauk SSSR.
(Science)

NESMEYANOV, A.N., akademik.

Some problems of Soviet science. Tekh.mol. 23 no.2:17-23 F '55.
(MIRA 8:4)

1. President Akademii nauk SSSR.
(Science)

NESMEYANOV, A.N.; KAFACHNIK, M.I.

**Double reactivity and tautomerism. Zhur.ob.khim. 25 no.1:41-87
Ja '55. (MIRA 8:4)**

1. Institut elementorganicheskikh soedineniy Akademii nauk SSSR.
(Tautomerism)

NESMEYANOV, A.N., akademik

Some results and tasks of coordination. Vest. AN SSSR 25 no.4:22-33
Ap '55. (MLRA 8:7)
(Learned institutions and societies)

KOVRIGINA, M.; NESMAYANOV, A.;^NBAKULOV, I.; KOCHERGIN, I.; OPARIN, A.;
ANICHKOV, M.; NESTIKOV, A.; KROTKOV, F.; CHERNOGOVSKIY, V.; TIMAKOV, V.;
SEVERIN, S.; HUDNYY, G.; SERGIYEV, P.; DOYDOVENKIY, I.; ORZHOVICH, V.;
TALYZIN, F.; STRUKOV, A.; MIGUNOV, B.; SKVORTSOV, M.

A.I. Abrikosov; obituary. Vest. AN SSSR 25 no.5:65-66 My '55.
(Abrikosov, Aleksei Ivanovich, 1875-1955) (MIRA 8:7)

NESMEYANOV, A.N.

NESMEYANAU, A.

Atomic energy in the service of peace and progress. Rab. 1 sial.
31 no.10:16 0'55. (MLRA 8:12)

1. President Akademii nauk SSSR
(Atomic power)

ANISIMOV, E.N.; NESMEYANOV, A.N.

Investigation into the derivatives of unsaturated phosphonic acids. Part 14. The complete esters of β -phenylvinyl phosphonic acids. Izv.AN SSSR Otd.khim.nauk 86 no.6:1003-1005 Ky '55.

1. Institut elementoorganicheskikh soedineniy Akademii nauk SSSR.
(Phosphonic acid)

NESMEYANOV A.N.

ANISIMOV, K.N.; NESMEYANOV, A.N.

Investigation into the derivatives of unsaturated phosphonic acids. Part 15. The complete esters of β, β' -phenylchlorovinyl phosphonic and β -phenylacetylene phosphonic acids. Izv. AN SSSR Otd. khim. nauk 86 no. 6:1006-1008 Ky '55. (MLRA 9:4)

1. Institut elementeorganicheskikh soedineniy Akademii nauk SSSR. (Phosphonic acid)

NESMEYANOV, A.N.; GUSEVA, L.I.; TIKHONOVA, L.I.; ZABORSKIY, A.K.

Chemical state of atoms resulting from nuclear transformations.
Dokl. AN SSSR 103 no.6:1041-1043 Ag '55. (MIRA 9:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.
Predstavleno akademikom A.N. Frumkinym.
(Radiochemistry)

NESMEYANOV, A. N.

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61612

Author: Nesmeyanov, A. N., Tolstaya, T. P., Tsayeva, L. S.

Institution: None

Title: Diphenylbromonium Salts

Original

Periodical: Dokl. AN SSSR, 1955, 104, No 6, 872-875

Abstract: Heterolytic decomposition of $C_6H_5N_2BF_4$ (I) in C_6H_5Br (II) results in the formation (with a yield of $\sim 0.5\%$) of diphenylbromonium borofluoride from which were obtained by double-exchange reactions, diphenylbromonium salts with the anions: J^- (decomposition temperature $81-82^\circ$); $PtCl_6^{2-}$ (decomposition temperature 159.5°); $(C_6H_5)_4B^-$ (decomposition temperature $164-165^\circ$); Br^- (decomposition temperature $82-83^\circ$); and HgJ_2 (decomposition temperature $108-109^\circ$). On decomposition of I in C_6H_5J (III) not even traces of diphenyliodonium salt are formed, which is formed on homolytic decomposition of phenyldiazoacetate (IV) in III. Decomposition of IV in II

Card 1/2

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61612

Abstract: in contrast with III produces no diphenylbromonium salts. For $(C_6H_5)_2BrJ$ and $(C_6H_5)_2BrBr$ are given the absorption spectra.

Card 2/2

NE SMEYANOV, A. N.

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61611

Author: Nesmeyanov, A. N., Tolstaya, T. P.

Institution: None

Title: Diphenylchloronium Salts

Original

Periodical: Dokl. AN SSSR, 1955, 105. No 1, 94-95

Abstract: As a result of a heterolytic decomposition of $C_6H_5N_2BF_4$ in C_6H_5Cl there is formed the borofluoride of diphenylchloronium from which were obtained by double-exchange reactions the diphenylchloronium salts with anions: $(C_6H_5)_4B^-$ (decomposition temperature $160-161^\circ$); $PtCl_6^{2-}$ (decomposition temperature $142.5-143^\circ$); HgJ_3^- (decomposition temperature $100-100.5^\circ$). $(C_6H_5)_2Cl^+$ decomposes as soon as formed. Presented are the absorption spectra of $(C_6H_5)_2Cl-B(C_6H_5)_4$ and $(C_6H_5)_4BK$.

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